

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) ~~Handsfree~~ A system for use in a vehicle comprising:
a microphone array with at least two microphones; and
~~a signal processing means where the signal processing means comprises a~~
superdirective beamformer with fixed superdirective filters;
where the superdirective beamformer is a regularized superdirective beamformer using a finite regularization parameter μ that is frequency dependent.
- 2-3. (canceled)
4. (currently amended) ~~Handsfree~~ A system according to claim 1 where each superdirective filter results from an iterative design based on a predetermined maximum susceptibility.
5. (currently amended) ~~Handsfree~~ A system according to claim 1 where each superdirective filter comprises a filter in the time domain.
6. (currently amended) ~~Handsfree~~ A system according to claim 1 where the signal processing means further comprises at least one inverse filter for adjusting a microphone transfer function.
7. (currently amended) ~~Handsfree~~ A system according to claim 6 where the at least one inverse filter comprises a warped inverse filter.

8. (currently amended) ~~Handsfree~~ A system according to claim 6 where each inverse filter comprises an approximate inverse of a non-minimum phase filter.
9. (currently amended) ~~Handsfree~~ A system according to claim 6 where each inverse filter is combined with a superdirective filter of the beamformer.
10. (currently amended) ~~Handsfree~~ A system according to claim 1 where the beamformer comprises the structure of a generalized sidelobe canceller (GSC).
11. (currently amended) ~~Handsfree~~ A system according to claim 1 where the beamformer comprises a minimum variance distortionless response (MVDR) beamformer.
12. (currently amended) ~~Handsfree~~ A system according to claim 1 where the microphone array comprises at least two microphones arranged in an endfire orientation with respect to a first position.
13. (currently amended) ~~Handsfree~~ A system according to claim 12 where the microphone array comprises at least two microphones arranged in endfire orientation with respect to a second position.
14. (currently amended) ~~Handsfree~~ A system according to claim 13 where the at least two microphones in the first endfire orientation and the at least two microphones in the second endfire orientation comprise a microphone in common.
15. (currently amended) ~~Handsfree~~ A system according to claim 1 where the microphone array[[s]] comprises at least two subarrays.
16. (currently amended) ~~Handsfree~~ A system according to claim 15 where the at least two subarrays comprise at least one microphone in common.

17. (currently amended) ~~Handsfree~~ A system according to claim 1 further comprising a frame where each microphone of the microphone array is arranged in a predetermined position in or on the frame.

18. (currently amended) ~~Handsfree~~ A system according to claim 17 where the predetermined position comprises a fixed position in or on the frame.

19. (currently amended) ~~Handsfree~~ A system according to claim 1 where at least one microphone comprises a directional microphone.

20. (currently amended) ~~Handsfree~~ A system according to claim 19 where the directional microphone comprises a directional microphone with a cardioid characteristic.

21. (currently amended) ~~Handsfree~~ A system according to claim 19 where the directional microphone comprises a differential microphone.

22. (currently amended) ~~Handsfree~~ A system according to claim 1 comprising a vehicle coupled to the microphone and the beamformer.

23. (currently amended) ~~Handsfree~~ A system for use in a vehicle comprising:
a microphone array with at least two microphones and a superdirective beamformer having fixed superdirective filters;
where the superdirective beamformers are configured with a predetermined susceptibility that is based on a relative error of the microphone array.

24. (currently amended) ~~Handsfree~~ A system according to claim 23 where the relative error of the microphone array is a sum of mean square error of transfer properties of each microphone in the microphone array and a gaussian error with zero mean of microphone positions.

25. (currently amended) ~~Handsfree~~ A system according to claim 23 where at least two microphones in the microphone array are arranged in an endfire orientation with respect to a first position.

26. (currently amended) ~~Handsfree~~ A system according to claim 25 ~~[[were]]~~ where at least two microphones in the microphone array are arranged in an endfire orientation with respect to a second position.

27. (currently amended) ~~Handsfree~~ A system according to claim 23 where at least one microphone comprises a directional microphone.

28. (currently amended) ~~Handsfree~~ A system according to claim 27 where the directional microphone comprises a directional microphone with a cardio characteristic.

29. (currently amended) ~~Handsfree~~ A system according to claim 27 where the directional microphone comprises a differential microphone.